

chain nodes :

13 14 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 37 38
 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 64 65 66 67
 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 98

ing nodes :

1 2 3 4 5 6 7 8 9 10 11 12 58 59 60 61 62 63

chain bonds :

1-16 3-18 5-13 7-17 9-15 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28
 28-29 29-30 30-31 31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44
 44-45 45-46 46-47 48-49 49-50 50-51 51-52 51-53 53-54 54-55 55-56 56-57 61-64
 64-65 65-66 66-67 68-69 69-70 70-71 71-72 71-73 73-74 73-76 74-75 77-78 78-79
 79-80 80-81 80-82 82-83 82-84

ing bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 58-59 58-63 59-60
 60-61 61-62 62-63

xact/norm bonds :

1-2 1-6 1-16 2-3 3-4 3-18 4-5 5-6 5-13 7-8 7-12 7-17 8-9 9-10 9-15 10-11
 11-12 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28 28-29 29-30 30-31
 31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44 44-45 45-46 46-47
 48-49 49-50 50-51 51-52 51-53 53-54 54-55 55-56 56-57 58-59 58-63 59-60 60-61
 61-62 61-64 62-63 64-65 65-66 66-67 68-69 69-70 70-71 71-72 71-73 73-74 73-76
 74-75 77-78 78-79 79-80 80-81 80-82 82-83 82-84

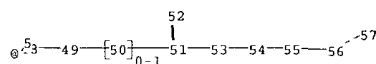
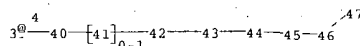
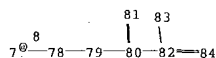
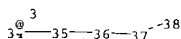
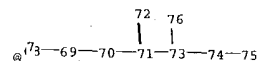
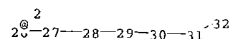
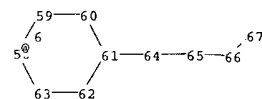
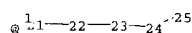
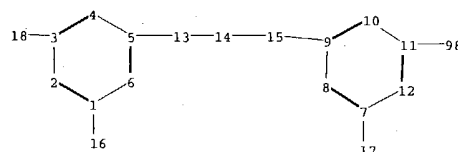
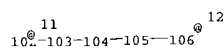
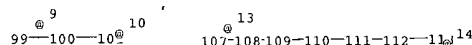
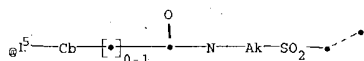
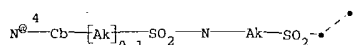
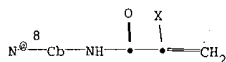
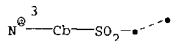
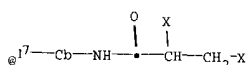
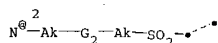
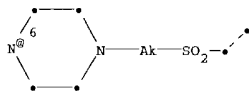
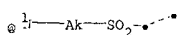
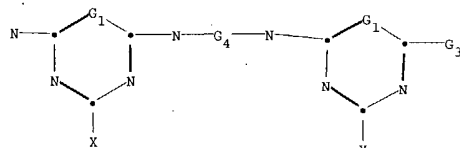
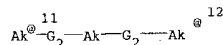
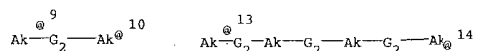
1:C,N

2:O,N

3:[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8]

atch level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 21:CLASS 22:CLASS
 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS
 32:CLASS



chain nodes :

13 14 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 37 38
 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 64 65 66 67
 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 98 99 100 101 102
 103 104 105 106 107 108 109 110 111 112 113

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 58 59 60 61 62 63

chain bonds :

1-16 3-18 5-13 7-17 9-15 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28
 28-29 29-30 30-31 31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44
 44-45 45-46 46-47 48-49 49-50 50-51 51-52 51-53 53-54 54-55 55-56 56-57 61-64
 64-65 65-66 66-67 68-69 69-70 70-71 71-72 71-73 73-74 73-76 74-75 77-78 78-79
 79-80 80-81 80-82 82-83 82-84 99-100 100-101 102-103 103-104 104-105 105-106
 107-108 108-109 109-110 110-111 111-112 112-113

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 58-59 58-63 59-60
 60-61 61-62 62-63

exact/norm bonds :

1-2 1-6 1-16 2-3 3-4 3-18 4-5 5-6 5-13 7-8 7-12 7-17 8-9 9-10 9-15 10-11
 11-12 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28 28-29 29-30 30-31
 31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44 44-45 45-46 46-47
 48-49 49-50 50-51 51-52 51-53 53-54 54-55 55-56 56-57 58-59 58-63 59-60 60-61
 61-62 61-64 62-63 64-65 65-66 66-67 68-69 69-70 70-71 71-72 71-73 73-74 73-76
 74-75 77-78 78-79 79-80 80-81 80-82 82-83 82-84 99-100 100-101 102-103 103-104
 104-105 105-106 107-108 108-109 109-110 110-111 111-112 112-113

G1:C,N

G2:O,N

G3:[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8]

G4:[*9-*10],[*11-*12],[*13-*14]

=> d his

(FILE 'HOME' ENTERED AT 13:17:57 ON 11 JUN 2004)

FILE 'REGISTRY' ENTERED AT 13:18:06 ON 11 JUN 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 1 S L1 OR L2
L4 5 S L3 FULL

FILE 'CAPLUS' ENTERED AT 13:19:54 ON 11 JUN 2004

L5 3 S L4

=> d que 15 stat

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L2 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L4 5 SEA FILE=REGISTRY SSS FUL L1 OR L2
L5 3 SEA FILE=CAPLUS ABB=ON PLU=ON L4

=> d 1-3 ibib iabs hitstr

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:51717 CAPLUS

DOCUMENT NUMBER: 136:119798

TITLE: Printing cellulosic fiber materials without an additional fixing process step

INVENTOR(S): Tzikas, Athanassios; Reichert, Hans; Klier, Herbert

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

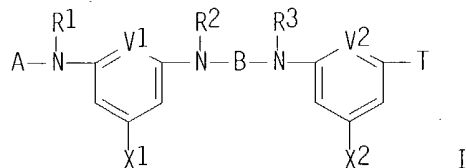
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004741	A1	20020117	WO 2001-EP7362	20010628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1299594	A1	20030409	EP 2001-953180	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004502886	T2	20040129	JP 2002-509589	20010628
US 2002032318	A1	20020314	US 2001-899439	20010705
US 6623533	B2	20030923		
US 2004055098	A1	20040325	US 2003-618922	20030714
PRIORITY APPLN. INFO.:			EP 2000-810594	A 20000707
			WO 2001-EP7362	W 20010628
			US 2001-899439	A3 20010705

OTHER SOURCE(S): MARPAT 136:119798

GRAPHIC IMAGE:



ABSTRACT:

Printing cellulosic fiber materials comprises fiber material brought into contact with reactive dyes I, where A is the radical of a monoazo, polyazo,

metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine chromophore, R1, R2 and R3 = H or unsubstituted or substituted C1-4-alkyl, X1 and X2 = halogen, B is an organic bridging member, T is a reactive radical, R4 = H, C1-4-alkyl unsubstituted or substituted by hydroxy, sulfo, sulfato, carboxy or by CN, or a radical alkR5SO2Y, where R5 = is H, OH, sulfo, sulfato, carboxy, CN, halogen, C1-C4alkoxycarbonyl, C1-C4alkanoyloxy, carbamoyl or SO2Y, R6 = H or C1-C4alkyl, alk and alk1 are linear or branched C1-C6alkylene, arylene is an unsubstituted or sulfo, carboxy, OH, C1-C4alkyl, C1-C4alkoxy- or halo-substituted phenylene or naphthylene radical, Y = vinyl or a radical CH2CH2U and U is a leaving group, Y1 = CH(Hal)CH2(Hal) or C(Hal)=CH2, where Hal is Cl or Br, W = SO2NR6, CONR6 or NR6CO, Q = O or NR6, n = 0 or 1, and V1 and V2 = N, CH, CCl or CF. The prints obtained are distinguished by brilliant color shades and good all around properties.

IT 390368-44-2P 390368-45-3P

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

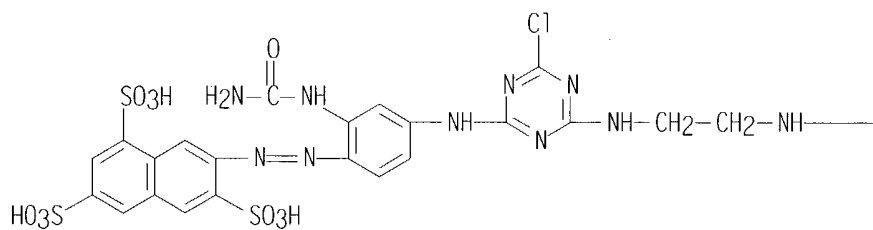
(dyeing by; reactive dye printing cellulosic materials without addnl. fixing process step)

RN 390368-44-2 CAPLUS

CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-chloro-6-[[2-[[4-[[4-(ethenylsulfonyl)phenyl]amino]-6-fluoro-1,3,5-triazin-2-yl]amino]methylethyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI)
(CA INDEX NAME)

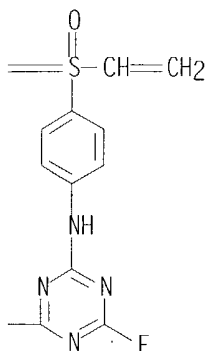
PAGE 1-A

O=



D1-Me

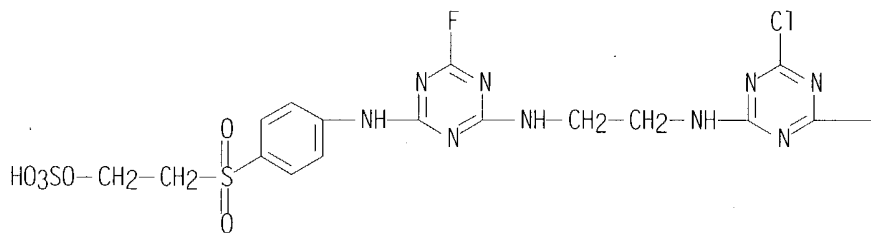
PAGE 1-B



RN 390368-45-3 CAPLUS

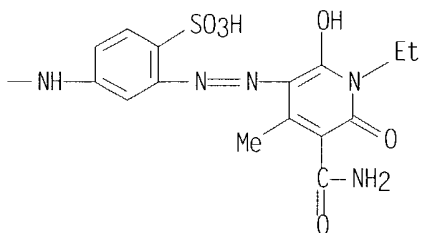
CN Benzenesulfonic acid, 2-[[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-[[[4-chloro-6-[[2-[[[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]methylethyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



D1-Me

PAGE 1-B



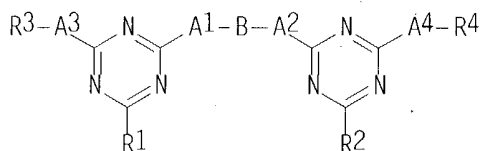
REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:672436 CAPLUS
 DOCUMENT NUMBER: 131:300558
 TITLE: Process for the treatment of cellulose fibers
 INVENTOR(S): Aeschlimann, Peter; Muller, Bernhard
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.:
 Chemiefaser Lenzing
 SOURCE: Eur. Pat. Appl., 29 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 950750	A1	19991020	EP 1999-810284	19990407
EP 950750	B1	20031022		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TW 490528	B	20020611	TW 1999-88104974	19990329
AT 252660	E	20031115	AT 1999-810284	19990407
JP 2000064176	A2	20000229	JP 1999-101098	19990408
US 6203746	B1	20010320	US 1999-289317	19990409
AU 9923729	A1	19991021	AU 1999-23729	19990413
AU 747485	B2	20020516		
CN 1235218	A	19991117	CN 1999-107516	19990413
BR 9902044	A	20000104	BR 1999-2044	19990413
PRIORITY APPLN. INFO.:			EP 1998-810315	A 19980414
			CH 1998-1096	A 19980519
OTHER SOURCE(S):	MARPAT 131:300558			
GRAPHIC IMAGE:				



ABSTRACT:

The fibrillation tendency of lyocell cellulosic fibers is reduced by treatment with compds. having the structure I, where R1 and R2 are halogen or a sulfo-substituted phenylamino group, with at least one or both being halogen; R3 and R4 are unsubstituted or substituted Ph groups; A1, A2, A3 and A4 are O, S, or an amino group; B is an aromatic bridging group; A3R3 or A4R4 can be halogen; and A1BA2 is NHCH2CHMeNH. Thus, 2,5-anilinedisulfonic acid was treated with cyanuric fluoride and 1,2-diaminopropane to give the intermediate 2-[[4-[(2-amino-1-methylethyl)amino]-6-fluoro-1,3,5-triazin-2-yl]amino]-1,4-benzenedisulfonic acid, which on treatment with aniline-2-sulfonic acid yielded I, where R = F, R1 = 2-sulfoanilino and Z = CH2CHMe (II). Treatment of a

lyocell fabric with an aqueous liquor containing II yielded a fabric having a Martindale abrasion test value about 1.5 times higher than that of the unfinished fabric. The fabric could be simultaneously dyed with fiber-reactive dyes during the treatment with II.

IT 247019-46-1P

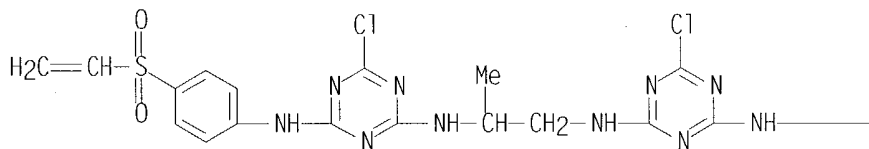
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)

(finishing agent: for reducing fibrillation of lyocell textiles)

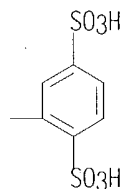
RN 247019-46-1 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[[4-chloro-6-[[2-[[4-chloro-6-[[4-(ethenylsulfonyl)phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT:

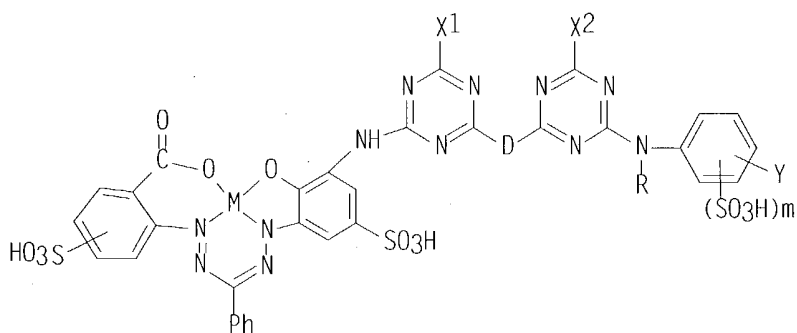
6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:505688 CAPLUS
 DOCUMENT NUMBER: 131:145686
 TITLE: Multifunctional reactive blue formazan dyes
 INVENTOR(S): Phillips, Duncan Adrian Sidney; Taylor, John Anthony;
 Chen, Wen-Jang
 PATENT ASSIGNEE(S): Everlight USA, Inc., USA
 SOURCE: U.S., 19 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5936073	A	19990810	US 1998-205353	19981204
PRIORITY APPLN. INFO.:			US 1998-205353	19981204
OTHER SOURCE(S):	MARPAT 131:145686			
GRAPHIC IMAGE:				



I

ABSTRACT:

The dyes have the formula I [D = NH(CH₂)_pNH, NR₁(CH₂)_qC₆H₄-n(SO₃H)_nNH; M = Cu, Ni; R, R₁ = H, C1-4 alkyl; X₁, X₂ = F, Cl, Br, quaternary ammonium; Y = SO₂CH₂CH₂ or precursor, NHCOTCH₂ or precursor; T = OH, Cl, Br, OSO₃H; m = 0, 1; p, q = 0-4]. These dyes have deep-dyeing ability, and are suitable for dyeing and printing of materials containing cellulose fibers, such as cotton, synthetic cotton, hemp, and synthetic hemp.

IT 236386-99-5P 236387-00-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

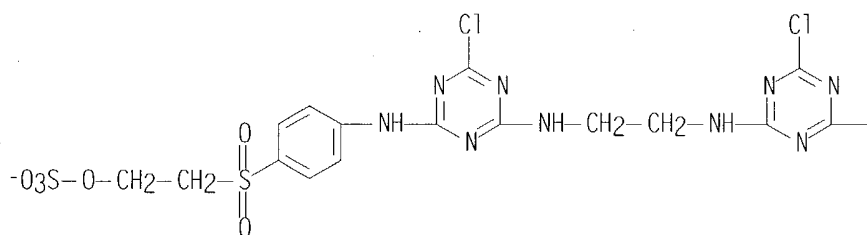
(blue; preparation of multifunctional reactive formazan dyes)

RN 236386-99-5 CAPLUS

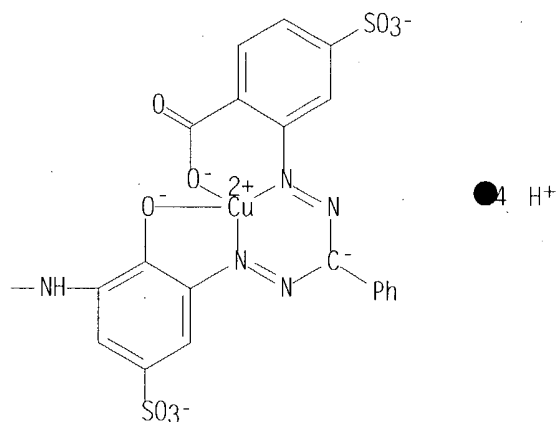
CN Cuprate(4-), [2-[[[3-[[4-chloro-6-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-

yl]amino]ethyl]amino]-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulfo-phenyl]azo-κN2]phenylmethyl]azo-κN1]-4-sulfo-benzoato(6-)-κO]-, tetrahydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



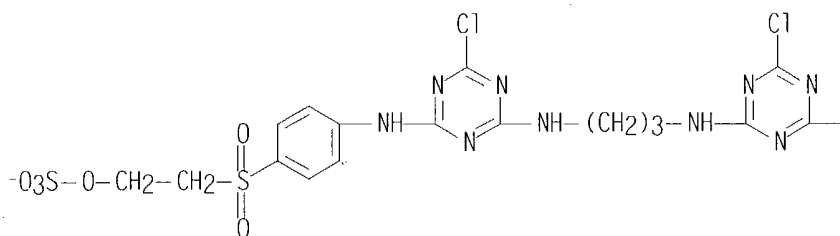
PAGE 1-B



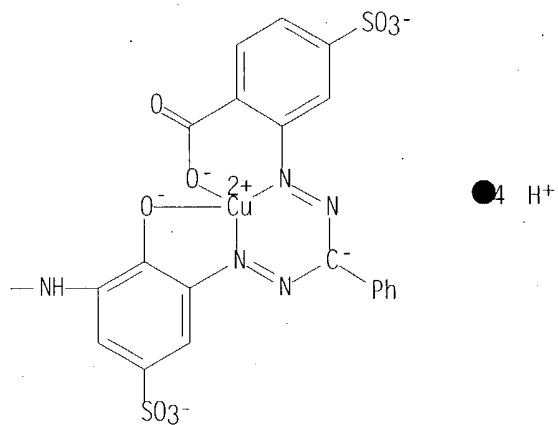
RN 236387-00-1 CAPLUS

CN: Cuprate(4-), [2-[[[3-[[4-chloro-6-[[3-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulphophenyl]azo-κN2]phenylmethyl]azo-κN1]-4-sulphobenzoato(6-)-κO]-, tetrahydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT